Victor Valley Wastewater Reclamation Authority WASTEWATER TREATMENT PLANT

ANNUAL BIOSOLIDS MONITORING REPORT - 1996

1. GENERAL INFORMATION

Name of Generator:

Victor Valley Wastewater Reclamation Authority

Facility Address:

20111 Shay Road, Victorville, CA 92394

Mailing Address:

20111 Shay Road, Victorville, CA 92394

Contact Person:

Daniel P. Gallagher, General Manager

Telephone:

(760) 246-8638

Ownership:

Publicly Owned Treatment works

2. FACILITY INFORMATION

Name:

Victor Valley Wastewater Reclamation Authority

Location:

20111 Shay Road, Victorville, CA 92394

Telephone:

(760) 246-8638

NPDES Number:

CA 0102822

Influent Flow:

7.58 mgd for 1996 (average daily flow rate)

3. BIOSOLIDS INFORMATION

Treatment:

Biosolids at the Victor Valley Water Reclamation Authority, which begin as primary and waste activated sludge, are thickened, anaerobically digested, dried in soil-cement lined drying lagoons, and then removed from the beds and stored on site until they achieve Class A quality. Ultimately (and within 2 years) they are transported to farm lands where the nutrients and humus value of the material is beneficially reused to grow such crops as dates, citrus and vegetables. This year Class A biosolids were land applied from October 21, 1996 to December 29, 1996 to two farms, the Antelope Valley Site (AOD Site) and the Riverside County Site (R1 Site).

Quantities Generated: = 1,747 wet tons¹

= 1,310 dry tons

= 1,188 dry metric tonnes

¹ Moisture content estimated at 75% total solids

Monitoring & Frequency:

- Pathogen reduction is monitored by testing for Fecal Coliform,
 Helminth Ova and Enteric Virus. Sampling and testing for
 compliance is required once every quarter, but was only
 conducted twice in 1996.
- Sampling and testing for 40 CFR 503 Table 3 pollutant concentrations are required once every quarter, but was only conducted twice in 1996.
- Sampling and testing for biosolids moisture content is required once every quarter, but was only conducted twice in 1996.

Sample Type: Solar drying bed dewatered cake.

Quality: • Class A based on one test result.

4. LAND APPLICATION INFORMATION

Volume Applied = 5,353 wet tons²

= 4,229 dry tons

= 3,838 dry metric tonnes

Pollutants: see Table A, Section 1

Pathogens: see Table A, Section 2

Vector Attraction Reduction: see Table A, Section 3

Land Application Sites: The District distributes biosolids that have achieved Class A quality. Currently there are no rules or regulations that require recordkeeping or monitoring of Class A applications. None-the-less the District and its service provider have maintained the following site application records:

Site: Antelope Valley Site

Owner: Olin E. Derrick
Operator: Pima Gro
Contact: Gary Bruggeman

Address: P.O. Box 7547, Redlands, CA 92375

Telephone: (909) 798-8717

Site Location: S1/2 of Section 6, T7N, R10W, MDB&M

200 acres Northwest of 90th Street East and Avenue H

intersection, in County of Los Angeles, CA

Permits: Lahontan RWQCB Order No. 6-95-100-08

Biosolids Quantity: 671.7 wet tons
Application Rate: 9.6 d.t./acre
Nitrogen Rate: 163 lbs/acre

Crops Planted/Grown: Barley

² Averaged 79% total solids

Site:

Riverside County Site

Owner:

Carl Rheinegains

Operator:

Pima Gro

Contact:

Gary Bruggeman

Address:

P.O. Box 7547, Redlands, CA 92375

Telephone:

(909) 798-8717

Site Location:

Section 3, T6S, R2W, MDB&M

Permits:

4,681 equired

Biosolids Quantity:

wet tons

Application Rate: Nitrogen Rate: 15 d.t./acre

not reported

Crops Planted/Grown:

not reported

5. DISPOSAL INFORMATION....

Volume = 0 wet tons

6. LABORATORY DATA.....See Table A, page 4.

Table A Victor Valley Wastewater Reclamation Authority

Compliance Summary 1996

Α	В	С	D	E	F	G	Н
	1st Quarter 2/11/96	2nd Quarter 3/28/96	3rd Quarter 1996	4th Quarter 11/6/96	Annual Av.	Annual Max	Applicable 503 Criteria
2 1. Biosolids P	ollutant	Concen	trations	s - see No	te (2)		
3 Arsenic	4.38	ND		8.90	6.6	8.9	41
4 Cadmium	5.92	ND		3.3	4.6	5.92	39
5 Chromium	38.9	41.3		76.8	52.3	76.8	1200
6 Copper	204	160	()	361	241.7	361	1500
7 Lead	38.8	22.5	Data	45.30	35.5	45.3	300
8 Mercury	1.72	2.84	Issing	3.96	2.8	3.96	17
9 Molybdenum	4.26	14.80	Mis	10.1	9.7	14.8	deleted
0 Nickel	14.1	11.3		30.90	18.8	30.9	420
1 Selenium	1.72	0.29		5.74	2.6	5.74	(1) 36/100
2 Zinc	306	391		544	413.7	544	2800
3 Notes: (1)	40 CFR 5	03 limit cha	nged from	36 mg/kg to	100 mg/kg	on Octob	er 25. 1995.
5 2. Pathogens	per 40 CF	R 503.13(b)(3), Pollut	ant Concentr	ations.		
7 Hel Ova/4 gm. (3)	€	<1	data (A)	<1	<1	<1	<1
8 PFU EV/4 gm. (4)	ing data	<1	sing data	<1	<1	<1	<1
9 MPN FC/gm. (5)	missim	12	missin	ND	6	12	<1000
	Helminth Ova per 4 grams.						
4	Plaque-forming Unit Enteric Virus per 4 grams.						
0	In 1996 this unit of measure was reported as MPN FC/100ml.						
3	This was corrected in later years to MPN per gram of total solids.						
3. Vector Attro						ar oonus.	
Solids Concentration	Missing Data (A)	79.10%	Missing Data (A)	64.60%	71.85%	64.60%	solids >=75
8 (A)Sample was not	collected in	this quarter.	A new sam	plina /testina i	procedure is	s now in ola	ace.
9 (B)Vector Attraction							
0 drying stabilized sol							
1 Authority's biosolids					2/28/Q8 T	he Authoriti	ı haliayas the
2 during this time the							